Project Number:	627
Category:	Inspection/Safety
Date:	January 2009
Subject:	Assess/Develop Inspection Methodologies for Offshore Wind Turbine Facilities
Performing Activity:	Energo Engineering, Inc**.**
Principal Investigator:	F. Puskar
Contracting Agency:	Bureau of Safety and Environmental Enforcement
Summary:	The project developed preliminary guidelines for integrity management (IM) procedure for offshore wind turbine facilities appropriate for use in U.S. waters. These procedures included guidance on frequency and method of inspection and addressed the platform structure, turbine tower, turbine and housing, and turbine blades.
Key Findings:	Risk-based inspection methodology that integrates the extensive experience of both above- and below-water inspections of offshore oil and gas platforms with inspection practices that are unique to wind turbine facilities, both in the U.S. and in other parts of the world where these turbines are already operating offshore, is an appropriate basis for offshore wind turbine (OWT) inspection guidelines on the U.S. OCS.
Recommendations:	• Guidelines should be followed, such as inspection priorities, inspection frequencies, and data management, and an inspection checklist should be developed
Subsequent Studies/Activities:	• TAP 650: Offshore Wind Turbine Inspection Refinements
Report Link:	AA: Inspection Methodologies for Offshore Wind Turbine Facilities, January 30, 2009 by Frank Puskar and Robert Sheppard, Energo Engineering, Inc., Houston, TX